



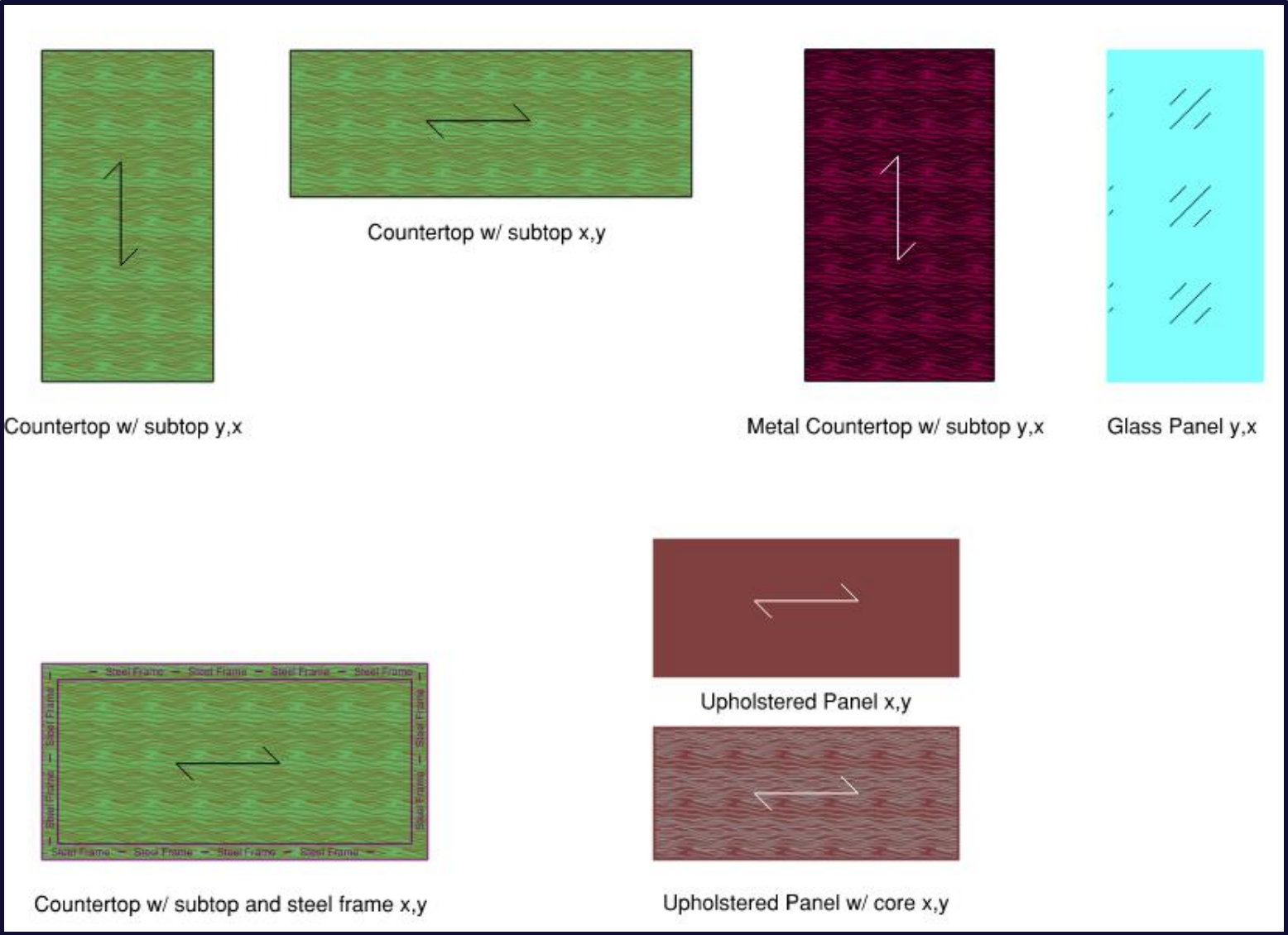
Supercharging Revu Data with Power Query in Excel

Doug McLean, RSE, BCP
Bluebeam Digital Champion
Sr. Estimator, Towne Millwork Ltd.



Custom Workflows

Transforming data from Revu – Multiple values from Single Markups



- 1. Make your markups using Custom tools
- 2. Export to Excel via csv
- 3. Transform using Power Query

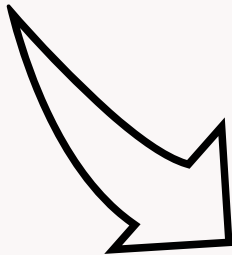
Subject	Label	Width	Length	Construction	Finish	Grain Direction
Glass Buyout	Glass Buyout	648.7	1387.2	Custom	Custom	Vertical
Buyout	Metal Countertop NTI	793.4	1387.2	DIEWALLS & CTOPS	RAW/ UNFINISHED	Horizontal
Countertops	Plywood Subtop	793.4	1387.2	DIEWALLS & CTOPS	RAW/ UNFINISHED	Horizontal
Buyout	ST-1 NTI	717.9	1387.2	DIEWALLS & CTOPS	RAW/ UNFINISHED	Horizontal
Countertops	Plywood Subtop	717.9	1387.2	DIEWALLS & CTOPS	RAW/ UNFINISHED	Horizontal
Buyout	ST-1 NTI	615.3	1678.6	DIEWALLS & CTOPS	RAW/ UNFINISHED	Horizontal
Countertops	Plywood Subtop	615.3	1678.6	DIEWALLS & CTOPS	RAW/ UNFINISHED	Horizontal
Buyout	QZ-1 NTI	824.7	1618.2	DIEWALLS & CTOPS	RAW/ UNFINISHED	Horizontal
Countertops	Plywood Subtop	824.7	1618.2	DIEWALLS & CTOPS	RAW/ UNFINISHED	Horizontal
Buyout	Steel Frame NTI	824.7	1618.2	DIEWALLS & CTOPS	RAW/ UNFINISHED	Horizontal
Upholstery Buyout	Upholstery Buyout	570.9	1274.5	LINER-PLY	Custom	Horizontal
Buyout	Upholstery Buyout NTI	553.6	1274.5	DIEWALLS & CTOPS	RAW/ UNFINISHED	Horizontal
Countertops	Plywood Subtop	553.6	1274.5	DIEWALLS & CTOPS	RAW/ UNFINISHED	Horizontal

ID	Parent	Subject	Label	Area	Length	Width	Height	Construction	Finish	Grain Direction
AZFZZFQQDUIOMOIW		Glass Buyout	Glass Buyout	9.687	4071.804	648.745	1387.157	Custom	Custom	Vertical
WDCDNYMIJUWEPJLL		Metal Buyout	Metal Countertop NTI;Plywood Subtop	11.847	4361.179	793.433	1387.157	DIEWALLS & CTOPS	RAW/ UNFINISHED	Horizontal
XDLMHWDGLPEJOXYW		Stone Buyout	ST-1 NTI;Plywood Subtop	10.719	4210.049	717.868	1387.157	DIEWALLS & CTOPS	RAW/ UNFINISHED	Horizontal
RGAYYDEOHLAYGTMQ		Stone Buyout	ST-1 NTI;Plywood Subtop	11.118	4587.877	1678.623	615.316	DIEWALLS & CTOPS	RAW/ UNFINISHED	Horizontal
SSQUNELAXVGLBQIB		Stone Buyout;Countertops;Metal Buyout	QZ-1 NTI;Plywood Subtop;Steel Frame NTI	14.364	4885.737	1618.196	824.672	DIEWALLS & CTOPS	RAW/ UNFINISHED	Horizontal
WLLGUAVXLWHSDJGM		Upholstery Buyout	Upholstery Buyout	7.832	3690.846	1274.495	570.928	LINER-PLY	Custom	Horizontal
PVUZMKNMAPBAYXQC		Upholstery Buyout	Upholstery Buyout NTI;Plywood Subtop	7.595	3656.243	1274.495	553.626	DIEWALLS & CTOPS	RAW/ UNFINISHED	Horizontal

Custom Workflows

Exporting and Cleaning data from PDF's

DOOR SCHEDULE - PARKADE LEVELS																				
No.	Room Name	Rm. No.	Door								Panel Finish	Door		Frame		Finish	Opening		Comments	
			Clear Dim.		No. of Panels	Panel Widths		Thickness	Type	Mat'l		HDWR Set	Security Set	Type	Mat'l		Fire Label	Glaz		
			Width	Height		Panel 1	Panel 2													
Level P1																				
P1.00a	WASTE & LOADING	P1.00	6395	4500				38				BY-01a		3	PS	PT			CR, WS	
P1.01a	HOUSING STORAGE	P1.01	1829	2134	2	914	914	44	F	HM	PT-11	AC-02b		1	PS	PT	60	-	CR, EL, KP, REX	
P1.02a	GENERATOR ROOM	P1.02	1829	2134	2	914	914	44	F	HM	PT-11	ST-05a		2	PS	PT	90	-		
P1.02b	GENERATOR ROOM	P1.02	965	2134	1	965	0	44	F	HM	PT-11	ST-01a		1	PS	PT	90	-		
P1.03a	UNIT SUBSTATION	P1.03	1829	2134	2	914	914	44	F	HM	PT-11	ST-05a		2	PS	PT	90	-		
P1.03b	UNIT SUBSTATION	P1.03	965	2134	1	965	0	44	F	HM	PT-11	ST-02a		1	PS	PT	90	-		
P1.04a	WATER ENTRY ROOM	P1.04	1829	2134	2	914	914	44	F	HM	PT-11	ST-05a		2	PS	PT	90	-		
P1.05a	SHIPPING / RECEIVING	P1.05	1829	2134	2	914	914	44	F	HM	PT-11	AC-02a		1	PS	PT	60	-	CR, EL, KP, REX	
P1.06a	TEL	P1.06	1829	2134	2	914	914	44	F	HM	PT-11	AC-02a		2	PS	PT	90	-	CR, EL, KP, REX	
P1.07a	SW STORAGE	P1.07	965	2134	1	965	0	44	F	HM	PT-11	AC-01c		1	PS	PT	60	-	CR, EL, KP, REX	
P1.08a	GN STORAGE	P1.08	965	2134	1	965	0	44	F	HM	PT-11	AC-01c		1	PS	PT	60	-	CR, EL, KP, REX	
P1.09a	HOUSING STORAGE	P1.09	965	2134	1	965	0	44	F	HM	PT-11	AC-01c		1	PS	PT	60	-	CR, EL, KP, REX	
P1.10a	WASTE & LOADING	P1.00	1829	2134	2	914	914	44	F	HM	PT-11	AC-02a		1	PS	PT	60	-	CR, EL, KP, REX	
P1.ST01a	STAIR 01	P1.ST01	965	2134	1	965	0	44	NLFR	HM	PT-11	AC-04a		1	PS	PT	90	FR	DCL, KP, PB, TR	
P1.ST02a	STAIR 02	P1.ST02	1016	2134	1	1016	0	45	NLFR	HM, GL	PT-11	AC-04a		1D	PS	PT	90	-	CR, DCL, EL, KP, PB, REX, TR	
P1.ST07a	STAIR 07	P1.ST07	965	2134	1	965	0	44	F	HM	PT-21	ED-03a		1	PS	PT	-	-	DCL, INS, KP, PB, TB, WS	
P1.V1a	VESTIBULE	P1.V1	1829	2134	2	914	914	44	FLD	HM	PT-11	AO-01a		2	PS	PT	90	-	ADO, AS, ELR, KP	
P1.V2a	VEST.	P1.V2	1016	2134	1	1016	0	44	FLD	HM	PT-11	ED-01a		1	PS	PT	90	FR	AS, CR, DCL, EL, KP, PB, REX	
P1.V4a	VESTIBULE	P1.V4	1829	2134	2	914	914	44	FLD	HM	PT-11	AO-01a		2	PS	PT	90	FR	ADO, AS, ELR, KP	
Level P2																				
P2.00a	STAIR 07	P1.ST07	6495	3600				38				BY-01a		3	PS	PT			CR, WS	
P2.01a	LOCKERS	P2.01	1525	2134	2	915	610	44	FL	HM	PT-11	AC-02c		2	PS	PT	60	FR	CR, EL, KP, REX	
P2.02a	BIKE STORAGE	P2.02	965	2134	1	965	0	44	F	HM	PT-11	AC-01f		1	PS	PT	-	-	CR, EL, KP, REX	
P2.03a	LOCKERS	P2.01	1524	2134	2	762	762	44	FL	HM	PT-11	AC-02c		2	PS	PT	-	-	CR, EL, KP, REX	
P2.04a	BIKE STORAGE	P2.04	965	2134	1	965	0	44	F	HM	PT-11	AC-01a		1	PS	PT	-	-	CR, EL, KP, REX	
P2.05a	LOCKERS	P2.01	965	2134	1	965	0	44	F	HM	PT-12	AC-01b		1	PS	PT	-	-	CR, EL, KP, REX	
P2.05b	END OF TRIP	P2.05	965	2134	1	965	0	44	F	HM	PT-12	WA-01b		1	PS	PT	-	-	OHDS	
P2.05c	END OF TRIP	P2.05	711	2134	1	711	0	44	F	HM	PT-12	WA-01a		1	PS	PT	-	-		
P2.05d	END OF TRIP	P2.05	965	2134	1	965	0	44	F	HM	PT-12	WA-01b		1	PS	PT	-	-		
P2.05e	END OF TRIP	P2.05	965	2134	1	965	0	44	F	HM	PT-12	WA-01b		1	PS	PT	-	-		



Level	No.	Room Name	Rm. No.	Door Clear Dim. W	Door Clear Dim. H	Door No. of Pa	Door Panel Widths P ₁	Door Panel Widths P ₂	Door Thickn	Door Ty	Door Ma	Panel Fin	Door HDWR S	Door Sec
Level P	P1.00a	WASTE & LOADING	P1.00	6395	4500				38				BY-01a	
Level P	P1.01a	HOUSING STORAGE	P1.01	1829	2134	2	914	914	44	F	HM	PT	AC-02b	
Level P	P1.02a	GENERATOR ROOM	P1.02	1829	2134	2	914	914	44	F	HM	PT	ST-05a	
Level P	P1.02b	GENERATOR ROOM	P1.02	965	2134	1	965	0	44	F	HM	PT	ST-01a	
Level P	P1.03a	UNIT SUBSTATION	P1.03	1829	2134	2	914	914	44	F	HM	PT	ST-05a	
Level P	P1.03b	UNIT SUBSTATION	P1.03	965	2134	1	965	0	44	F	HM	PT	ST-02a	
Level P	P1.04a	WATER ENTRY ROOM	P1.04	1829	2134	2	914	914	44	F	HM	PT	ST-05a	
Level P	P1.05a	SHIPPING / RECEIVING	P1.05	1829	2134	2	914	914	44	F	HM	PT	AC-02a	
Level P	P1.06a	TEL	P1.06	1829	2134	2	914	914	44	F	HM	PT	AC-02a	
Level P	P1.07a	SW STORAGE	P1.07	965	2134	1	965	0	44	F	HM	PT	AC-01c	
Level P	P1.08a	GN STORAGE	P1.08	965	2134	1	965	0	44	F	HM	PT	AC-01c	
Level P	P1.09a	HOUSING STORAGE	P1.09	965	2134	1	965	0	44	F	HM	PT	AC-01c	
Level P	P1.10a	WASTE & LOADING	P1.00	1829	2134	2	914	914	44	F	HM	PT	AC-02a	
Level P	P1.ST01a	STAIR 01	P1.ST01	965	2134	1	965	0	44	NLFR	HM	PT	AC-04a	
Level P	P1.ST02	STAIR 02	P1.ST02	1016	2134	1	1016	0	45	NLFR	HM, GL	PT	AC-04a	
Level P	P1.ST07	STAIR 07	P1.ST07	965	2134	1	965	0	44	F	HM	PT	ED-03a	
Level P	P1.V1a	VESTIBULE	P1.V1	1829	2134	2	914	914	44	FLD	HM	PT	AO-01a	
Level P	P1.V2a	VEST.	P1.V2	1016	2134	1	1016	0	44	FLD	HM	PT	ED-01a	
Level P	P1.V4a	VESTIBULE	P1.V4	1829	2134	2	914	914	44	FLD	HM	PT	AO-01a	
Level P	P2.00a	STAIR 07	P1.ST07	6495	3600				38				BY-01a	
Level P	P2.01a	LOCKERS	P2.01	1525	2134	2	915	610	44	FL	HM	PT	AC-02c	
Level P	P2.02a	BIKE STORAGE	P2.02	965	2134	1	965	0	44	F	HM	PT	AC-01f	
Level P	P2.03a	LOCKERS	P2.01	1524	2134	2	762	762	44	FL	HM	PT	AC-02c	
Level P	P2.04a	BIKE STORAGE	P2.04	965	2134	1	965	0	44	F	HM	PT	AC-01a	
Level P	P2.05a	LOCKERS	P2.01	965	2134	1	965	0	44	F	wD	CL	AC-01b	
Level P	P2.05b	END OF TRIP	P2.05	965	2134	1	965	0	44	F	wD	CL	wA-01b	
Level P	P2.05c	END OF TRIP	P2.05	711	2134	1	711	0	44	F	HM	PT	wA-01a	
Level P	P2.05d	END OF TRIP	P2.05	965	2134	1	965	0	44	F	HM	PT	wA-01b	
Level P	P2.05e	END OF TRIP	P2.05	965	2134	1	965	0	44	F	HM	PT	wA-01b	
Level P	P2.06a	BIKE STORAGE	P2.06	965	2134	1	965	0	44	F	HM	PT	AC-01a	
Level P	P2.07a	BIKE STORAGE	P2.07	965	2134	1	965	0	44	F	HM	PT	AO-02a	
Level P	P2.08a	STORAGE	P2.08	965	2134	1	965	0	44	F	HM	PT	AC-01c	
Level P	P2.09a	BIKE STORAGE	P2.09	965	2134	1	965	0	44	F	HM	PT	AC-01b	
Level P	P2.10a	BIKE STORAGE	P2.10	965	2134	1	965	0	44	F	HM	PT	AC-01a	
Level P	P2.11a	PER3 CONTROL ROOM	P2.11	965	2134	1	965	0	44	F	HM	PT	ST-01a	
Level P	P2.12a	SCOOTER STORAGE	P2.12	965	2134	1	965	0	44	F	HM	PT	AO-02a	
Level P	P2.ST01	STAIR 01	P2.ST01	965	2134	1	965	0	44	NLFR	HM	PT	AC-04b	
Level P	P2.ST02	STAIR 02	P2.ST02	1016	2134	1	1016	0	44	NLFR	HM	PT	AC-04b	
Level P	P2.V1a	VESTIBULE	P2.V1	1626	2134	2	813	813	44	FLD	HM, GL	PT	AO-07a	
Level P	P2.V1b	VESTIBULE	P2.V1	1626	2134	2	813	813	44	FLD	HM, GL	PT	AO-01a	
Level P	P2.V2a	VESTIBULE	P2.V2	1016	2134	1	1016	0	44	FLD	HM	PT	ED-01a	
Level P	P2.V3a	VESTIBULE	P2.V3	1626	2134	2	813	813	44	FLD	HM, GL	PT	AO-01a	
Level P	P3.01a	VESTIBULE	P3.V1	965	2134	1	965	0	44	FLD	HM	CL	AO-02f	
Level P	P3.01b	VESTIBULE	P3.V2	965	2134	1	965	0	44	FLD	HM	CL	AO-02f	

Custom Workflows

Capturing multiple takeoff values from a single markup

Multiple values from Single Markups

Create Custom Tools & Custom Columns

Who has ever wanted to be able to get the data out of a Grouped Markup?

#1 Thing asked for in BUG meetings

To make it happen, you must label your tools in a different way.

- Instead of one Subject – give it two or three or...
- Instead of one Label – give it two or three or...
- Separate your Titles with a Delimiter
 - What's a Delimiter?



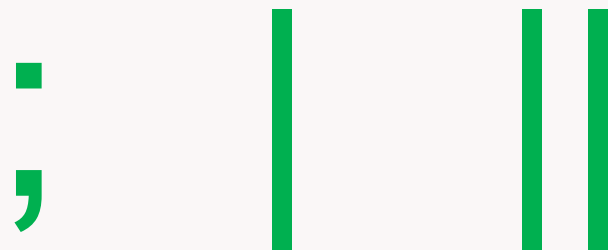
I've only ever done this with measurement type markups. Not sure if this technique will work with other markups

Buyouts		
	Subject	Label
	Metal Buyout	Metal Countertop NTI;Plywood Subtop
	Metal Buyout	Metal Buyout
	Metal Buyout	Metal Buyout
	Stone Buyout;Countertops;Metal Buyout	QZ-1 NTI;Plywood Subtop;Steel Frame NTI
	Metal Buyout	MT-1 Wall Panels NTI;Wall Panel Core
	Custom Buyout	TB-01 Wall Panels NTI;Wall Panel Core
	Stone Buyout	ST-1 NTI;Plywood Subtop
	Solid Surface Buyout	SS-1 NTI;Plywood Subtop
	Stone Buyout	Stone Buyout
	Solid Surface Buyout	Solid Surface Buyout NTI
	Upholstery Buyout	Upholstery Buyout
	Upholstery Buyout	Upholstery Buyout NTI;Plywood Subtop
	Glass Buyout	Glass Buyout
	Hardware Buyout	Custom Hardware
	Hardware Buyout	Custom Hardware
	Custom Pricing	Custom Hardware
	Custom Buyout	Custom Buyout
	Wood Door Buyout NTI	Custom Buyout
	Linea Buyout NTI	Linea Buyout
	Custom Buyout	Custom Buyout
	Wood Doors Buyout	Towne Millwork - Wood Doors
	Custom Buyout	

Multiple values from Single Markups

Create Custom Tools & Custom Columns

A delimiter is a character, or sequence of characters that separate different data elements



Good Delimiters.
Aren't standard to data



Avoid these Delimiters.
Revu uses the – to separate Spaces
Excel uses the ~ to denote an open file
Excel uses the , in a csv file

Multiple values from Single Markups

Create Custom Tools & Custom Columns

Tool with double Subject

Delimiter = “;”

Subject 1; Subject 2

Tool with triple Label

Delimiter = “|”

Label 1|Label 2|Label 3

Tool with double Subject AND Label

Delimiter = “;”

Subject 1; Subject 2
Label 1; Label 2

Multiple values from Single Markups

Create Custom Tools & Custom Columns



For an Area Measurement
Length = Perimeter
Width = dimension along the X axis
Height = dimension along the Y axis

ID	Parent	Subject	Label	Area	Length	Width	Height	Construction	Finish	Grain Direction
AZFZZFQQDUIOMOIW		Glass Buyout	Glass Buyout	9.687	4071.804	648.745	1387.157	Custom	Custom	Vertical
WDCDNYMIJUWEPJLL		Metal Buyout	Metal Countertop NTI;Plywood Subtop	11.847	4361.179	793.433	1387.157	DIEWALLS & CTOPS	RAW/ UNFINISHED	Horizontal
XDLMHWDGLPEJOXYW		Stone Buyout	ST-1 NTI;Plywood Subtop	10.719	4210.049	717.868	1387.157	DIEWALLS & CTOPS	RAW/ UNFINISHED	Horizontal
RGAYYDEOHLAYGTMQ		Stone Buyout	ST-1 NTI;Plywood Subtop	11.118	4587.877	1678.623	615.316	DIEWALLS & CTOPS	RAW/ UNFINISHED	Horizontal
SSQUNELAXVGLBQIB		Stone Buyout;Countertops;Metal Buyout	QZ-1 NTI;Plywood Subtop;Steel Frame NTI	14.364	4885.737	1618.196	824.672	DIEWALLS & CTOPS	RAW/ UNFINISHED	Horizontal
WLLGUAVXLWHSDJGM		Upholstery Buyout	Upholstery Buyout	7.832	3690.846	1274.495	570.928	LINER-PLY	Custom	Horizontal
PVUZMKNMAPBAYXQC		Upholstery Buyout	Upholstery Buyout NTI;Plywood Subtop	7.595	3656.243	1274.495	553.626	DIEWALLS & CTOPS	RAW/ UNFINISHED	Horizontal

What if grain direction matters?
Material dimensions are always listed as Thickness x Width x Length.
This is applicable to all trades.
The custom column for grain direction is necessary to ensure we transform the data correctly

Multiple values from Single Markups

Create Custom Tools & Custom Columns



Before you get started!

Take the time to learn how to create a reuseable BatchConfig file

Markup Summary

Files

Name	Pages
A45-01 INTERIOR ELEVATIONS.pdf	All Pages (1 - 1)

Add

Remove

Save...

Load...

Columns

Filter and Sort

Output

Export as:

CSV

Export to:

C:\Users\doug.mclean\Towne Millwork Ltd\Estimating - Documents

...

☒ Overwrite Existing File

File name:

A45-01 INTERIOR ELEVATIONS

☐ Create Multiple Reports Per Label

☐ Append Date to Title

Include:

☒ Markups

☐ Totals

☐ Markups & Totals

☒ Column Headers

☒ ID Columns

☐ Include Measurement Units

☒ Format Numbers

☐ Replies

☒ Full Status History

☒ Include Status Author and Time

☒ Open File After Creation

Save Config

Load Config

OK

Cancel

Multiple values from Single Markups

Create Custom Tools & Custom Columns



Before you get started!

Take the time to learn how to create a reuseable BatchConfig file

Markup Summary

Files

Name	Pages
A45-01 INTERIOR ELEVATIONS.pdf	All Pages (1 - 1)

Add

Remove

Save...

Load...

ColumnsFilter and SortOutput

Name	Filter
Space	[All]
Subject	[All]
Comments	[All]
Notes	[All]
Page Label	[All]
Label	[All]
Measurement	[All]
Area	[All]
Length	[All]
Width	[All]

Show All Columns

Sort ByLabelAscending

Then byAscending

Save Config

Load Config

OK

Cancel

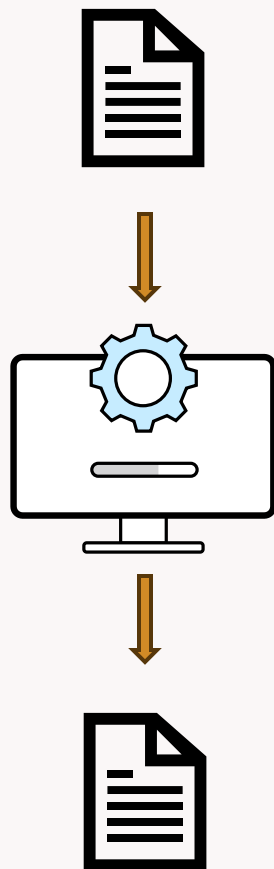
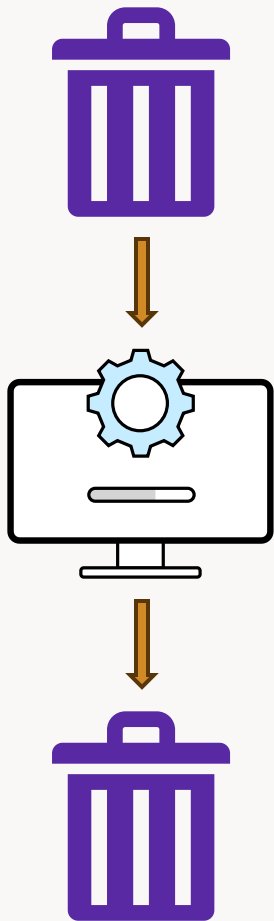
Multiple values from Single Markups

Create Custom Tools & Custom Columns



Before you get started!

Take the time to learn how to create a reuseable BatchConfig file



Markup Summary

Files

Name

A45-01 INTERIOR ELEVATIONS.pdf

Pages

All Pages (1 - 1)

Add

Remove

Save...

Load...

Columns

Filter and Sort

Output

☒	Name	Sample	Type
☒	Space	MW 03	Built-In
☒	Subject	RFI	Built-In
☒	Comments	RFI 013 Please Confirm finishes for Casework an...	Built-In
☒	Notes	Empty	Text
☒	Page Label	A45-01 INTERIOR ELEVATIONS	Built-In
☒	Label	PL-2 Casework - Full Height Recycling St...	Built-In
☒	Measurement	1	Built-In
☒	Area	0	Built-In
☒	Length	0	Built-In
☒	Width	0	Built-In
☒	Height	0	Built-In
☒	Depth	600.00	Built-In
☒	Count	0	Built-In

☐ Show Empty Columns

Save Config

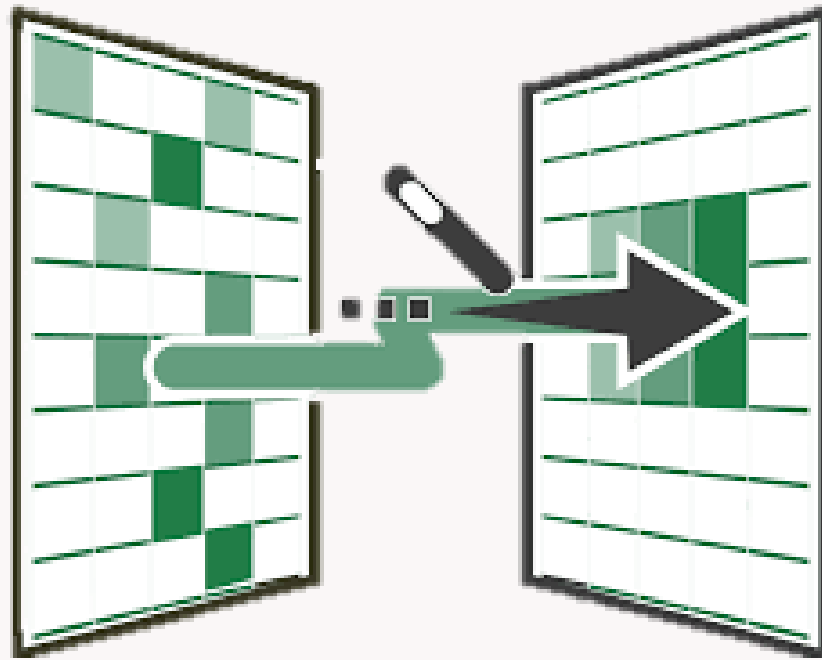
Load Config

OK

Cancel

Multiple values from Single Markups

Create Custom Tools & Custom Columns



Demo

Custom Workflows

Combine Schedule Data from
Architectural Drawings

Combine Schedule Data from Architectural Drawings

Creating usable data from PDF data

DOOR SCHEDULE - PARKADE LEVELS																			
No.	Room Name	Rm. No.	Door							Door				Frame		Opening			
			Clear Dim.		No. of Panels	Panel Widths		Thickness	Type	Mat'l	Panel Finish	H2WR Set	Security Set	Type	Mat'l	Finish	Fire Label	Glaz	Comments
			Width	Height		Panel 1	Panel 2												
Level P1																			
P1.00a	WASTE & LOADING	P1.00	6385	4630				38			BY-01a		3	PS	PT				CR, WS
P1.01a	HOUSING STORAGE	P1.01	1829	2134	2	914	914	44	F	HM	PT-11	AC-02a	1	PS	PT	60	-		CR, EL, KP, REX
P1.02a	GENERATOR ROOM	P1.02	1829	2134	2	914	914	44	F	HM	PT-11	ST-05a	2	PS	PT	90	-		
P1.02b	GENERATOR ROOM	P1.02	965	2134	1	965	0	44	F	HM	PT-11	ST-01a	1	PS	PT	90	-		
P1.03a	UNIT SUBSTATION	P1.03	1829	2134	2	914	914	44	F	HM	PT-11	ST-05a	2	PS	PT	90	-		
P1.03b	UNIT SUBSTATION	P1.03	965	2134	1	965	0	44	F	HM	PT-11	ST-02a	1	PS	PT	90	-		
P1.04a	WATER ENTRY ROOM	P1.04	1829	2134	2	914	914	44	F	HM	PT-11	ST-05a	2	PS	PT	90	-		
P1.05a	SHIPPING / RECEIVING	P1.05	1829	2134	2	914	914	44	F	HM	PT-11	AC-02a	1	PS	PT	60	-		CR, EL, KP, REX
P1.06a	TEL	P1.06	1829	2134	2	914	914	44	F	HM	PT-11	AC-02a	2	PS	PT	90	-		CR, EL, KP, REX
P1.07a	SW STORAGE	P1.07	965	2134	1	965	0	44	F	HM	PT-11	AC-01c	1	PS	PT	60	-		CR, EL, KP, REX
P1.08a	GN STORAGE	P1.08	965	2134	1	965	0	44	F	HM	PT-11	AC-01c	1	PS	PT	60	-		CR, EL, KP, REX
P1.09a	HOUSING STORAGE	P1.09	965	2134	1	965	0	44	F	HM	PT-11	AC-01c	1	PS	PT	60	-		CR, EL, KP, REX
P1.10a	WASTE & LOADING	P1.10	1829	2134	2	914	914	44	E	HM	PT-11	AC-02a	1	PS	PT	60	-		CR, EL, KP, REX
P1.101a	STAIR 01	P1.101	965	2134	1	965	0	44	NLFR	HM	PT-11	AC-04a	1	PS	PT	90	FR		DOL, KP, PB, TR
P1.102a	STAIR 02	P1.102	1016	2134	1	1016	0	44	NLFR	HM	PT-11	AC-04a	1	PS	PT	90	FR		CR, DOL, EL, KP, PB, REX, TR
P1.107a	STAIR 07	P1.107	965	2134	1	965	0	44	F	HM	PT-21	ED-03a	1	PS	PT	-	-		DOL, INS, KP, PB, TB, WS
P1.11a	VESTIBULE	P1.11	965	2134	1	965	0	44	F	HM	PT-11	ED-01a	1	PS	PT	90	FR		ADD, AS, EL, KP, REX
P1.12a	VEST.	P1.12	1016	2134	1	1016	0	44	F	HM	PT-11	ED-01a	1	PS	PT	90	FR		CR, DOL, EL, KP, PB, REX
P1.14a	VESTIBULE	P1.14	1829	2134	2	914	914	44	F	HM	PT-11	AC-01a	2	PS	PT	90	FR		ADD, AS, EL, KP, REX
Level P2																			
P2.00a	STAIR 07	P2.107	6465	3630	2			38			BY-01a		3	PS	PT				CR, WS
P2.01a	LOCKERS	P2.01	1525	2134	2	915	610	44	FL	HM	PT-11	AC-02c	2	PS	PT	60	FR		CR, EL, KP, REX
P2.02a	BIKE STORAGE	P2.02	965	2134	1	965	0	44	F	HM	PT-11	AC-01f	1	PS	PT	-	-		CR, EL, KP, REX
P2.03a	LOCKERS	P2.03	1524	2134	2	782	782	44	FL	HM	PT-11	AC-02c	2	PS	PT	-	-		CR, EL, KP, REX
P2.04a	BIKE STORAGE	P2.04	965	2134	1	965	0	44	F	HM	PT-11	AC-01a	1	PS	PT	-	-		CR, EL, KP, REX
P2.05a	LOCKERS	P2.05	965	2134	1	965	0	44	F	HM	PT-11	AC-01b	1	PS	PT	-	-		CR, EL, KP, REX
P2.05b	END OF TRIP	P2.05	965	2134	1	965	0	44	F	HM	PT-12	WA-01b	1	PS	PT	-	-		CHDS
P2.05c	END OF TRIP	P2.05	711	2134	1	711	0	44	F	HM	PT-12	WA-01a	1	PS	PT	-	-		
P2.05d	END OF TRIP	P2.05	965	2134	1	965	0	44	F	HM	PT-12	WA-01b	1	PS	PT	-	-		
P2.05e	END OF TRIP	P2.05	965	2134	1	965	0	44	F	HM	PT-12	WA-01b	1	PS	PT	-	-		
P2.06a	BIKE STORAGE	P2.06	965	2134	1	965	0	44	F	HM	PT-11	AC-01a	1	PS	PT	60	-		CR, EL, KP, REX
P2.07a	BIKE STORAGE	P2.07	965	2134	1	965	0	44	F	HM	PT-11	AC-02a	1	PS	PT	60	-		CR, EL, KP, REX
P2.08a	STORAGE	P2.08	965	2134	1	965	0	44	F	HM	PT-11	AC-01c	1	PS	PT	60	-		CR, EL, KP, REX
P2.09a	BIKE STORAGE	P2.09	965	2134	1	965	0	44	F	HM	PT-11	AC-01b	1	PS	PT	60	-		CR, EL, KP, REX
P2.10a	BIKE STORAGE	P2.10	965	2134	1	965	0	44	F	HM	PT-11	AC-01a	1	PS	PT	60	-		CR, EL, KP, REX
P2.11a	PERO CONTROL ROOM	P2.11	965	2134	1	965	0	44	F	HM	PT-11	ST-04a	1	PS	PT	90	FR		ADD, CR, EL, KP, REX
P2.12a	SCOOTER STORAGE	P2.12	965	2134	1	965	0	44	F	HM	PT-11	AC-02a	1	PS	PT	60	-		ADD, CR, EL, KP, REX
P2.101a	STAIR 01	P2.101	965	2134	1	965	0	44	NLFR	HM	PT-11	AC-04a	1	PS	PT	90	FR		DOL, KP, PB, TR
P2.102a	STAIR 02	P2.102	1016	2134	1	1016	0	44	NLFR	HM	PT-11	AC-04b	1	PS	PT	90	FR		CR, DOL, EL, KP, PB, REX, TR
P2.11a	VESTIBULE	P2.11	1829	2134	2	913	913	44	F	HM	PT-11	AC-07a	2	PS	PT	90	FR		ADD, CR, EL, KP, REX
P2.11b	VESTIBULE	P2.11	1829	2134	2	913	913	44	F	HM	PT-11	AC-01a	2	PS	PT	90	FR		ADD, CR, EL, KP, REX
P2.12a	VESTIBULE	P2.12	1016	2134	1	1016	0	44	F	HM	PT-11	ED-01a	1	PS	PT	90	FR		CR, DOL, EL, KP, PB, REX
P2.13a	VESTIBULE	P2.13	1829	2134	2	913	913	44	F	HM	PT-11	AC-01a	2	PS	PT	90	FR		ADD, AS, EL, KP, REX
Level P3																			
P3.01a	VESTIBULE	P3.11	965	2134	1	965	0	44	F	HM	PT-11	AC-02f	1	PS	PT	90	FR		ADD, AS, ES, KP
P3.01b	VESTIBULE	P3.12	965	2134	1	965	0	44	F	HM	PT-11	AC-02f	1	PS	PT	90	FR		ADD, AS, ES, KP
P3.02a	STORAGE	P3.02	965	2134	1	965	0	44	F	HM	PT-11	ST-01a	1	PS	PT	60	-		
P3.03a	TELECOM	P3.03	1829	2134	2	914	914	44	F	HM	PT-11	AC-02a	2	PS	PT	90	-		CR, EL, KP, REX
P3.04a	STORAGE	P3.04	965	2134	1	965	0	44	F	HM	PT-11	AC-01c	1	PS	PT	60	-		CR, EL, KP, REX
P3.05a	STORAGE	P3.05	965	2134	1	965	0	44	F	HM	PT-11	AC-01c	1	PS	PT	60	-		CR, EL, REX
P3.07a	VESTIBULE	P3.14	965	2134	1	965	0	44	E	HM	PT-11	AC-01c	1	PS	PT	90	-		CR, EL, KP, REX
P3.101a	STAIR 01	P3.101	965	2134	1	965	0	44	NLFR	HM	PT-11	AC-04a	1	PS	PT	90	FR		DOL, KP, PB, TR
P3.102a	STAIR 02	P3.102	1016	2134	1	1016	0	44	NLFR	HM	PT-11	AC-04a	1	PS	PT	90	FR		CR, EL, KP, PB, REX, TR
P3.14a	VESTIBULE	P3.14	965	2134	1	965	0	44	F	HM	PT-11	AC-02a	1	PS	PT	90	FR		ADD, INS, GR, ES, KP, REX
P3.12a	VESTIBULE	P3.12	965	2134	1	965	0	44	F	HM	PT-11	AC-02a	1	PS	PT	90	FR		ADD, AS, CR, ES, KP, REX
P3.13a	VESTIBULE	P3.13	1016	2134	1	1016	0	44	F	HM	PT-11	AC-04a	1	PS	PT	90	FR		CR, DOL, EL, KP, PB, REX
P3.14a	VESTIBULE	P3.14	965	2134	1	965	0	44	F	HM	PT-11	AC-02a	1	PS	PT	90	FR		ADD, AS, ES, KP

DOOR SCHEDULE - LEVEL 4 TO LEVEL 6																			
No.	Room Name	Rm. No.	Door							Door				Frame		Opening			
			Clear Dim.		No. of Panels	Panel Widths		Thickness	Type	Mat'l	Panel Finish	H2WR Set	Security Set	Type	Mat'l	Finish	Fire Label	Glaz	Comments
			Width	Height		Panel 1	Panel 2												
4.01a	BREAKOUT	4.01	965	2134	1	965	0	44	F	HM	PT	ST-01a	1	PS	PT	-	-	-	DS
4.01b	ELEC.	4.02	965	2134	1	965	0	44	F	HM	PT	ST-01b	1	PS	PT	90	-	-	DS
4.02a	TELECOM	4.03	1829	2134	2	914	914	44	F	HM	PT	AC-02b	1	PS	PT	90	-	-	CR, DS, EL, KP, REX, CHDS
4.03a	COMPUTER LAB	4.06	965	2134	1	965	0	44	F	HM	PT	CL-01b	1A	PS	PT	-	-	-	CHDS
4.04a	CORRIDOR	4.02	965	2134	1	965	0	44	F	HM	PT	CL-01a	1	PS	PT	-	-	-	
4.05a	FUTURE ACADEMIC SPACE	4.08	965	2134	1	965	0	44	F	HM	PT	CL-01a	1	PS	PT	-	-	-	
4.06b	FUTURE ACADEMIC SPACE	4.08	965	2134	1	965	0	44	F	HM	PT	CL-01a	1	PS	PT	-	-	-	
4.10a	COLLABORATION SPACE	4.10	965	2134	1	965	0	44	F	HM	PT	CL-01a	1B	PS	PT	-	-	-	
4.11a	ELEC.	4.11	914	2134	1	914	0	44	F	HM	PT	ST-02b	1	PS	PT	90	-	-	DS
4.12a	TELECOM	4.02	1829	2134	2	914	914	44	F	HM	PT	AC-02b	1	PS	PT	90	-	-	CR, DS, EL, KP, REX, CHDS
4.13a	CLASSROOM	4.13	965	2134	1	965	0	44	F	HM	PT	CL-01a	1B	PS	PT	-	-	-	
4.14a	CLASSROOM	4.14	965	2134	1	965	0	44	F	HM	PT	CL-01b	1A	PS	PT	-	-	-	CHDS
4.15a	JAN.	4.15	914	2134	1	914	0	44	F	HM	PT	ST-03a	1	PS	PT	0	-	-	</

Combine Schedule Data from Architectural Drawings

Creating usable data from PDF data



Review your Data!!

Data exports from PDF's are NOTORIOUSLY unreliable

You could come across these issues

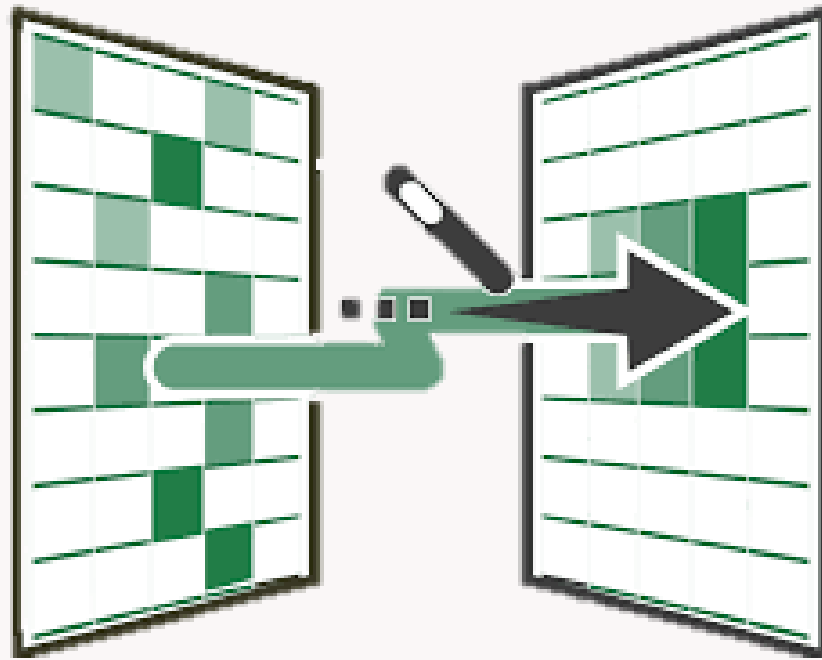
- Merged Cells
- Random Blank Columns
- Extra Data in the sheet
- Revision bubbles
- Numbers as Text
- Text as Numbers

Note that any, all, or none of these conditions may or may not occur on all sheets!!!



Combine Schedule Data from Architectural Drawings

Creating usable data from PDF data



Demo

Combine Schedule Data from Architectural Drawings

Creating usable data from PDF data

Why?

We clean data for any number of reasons.

Cleaning and formatting your data in Tabular format allows you to use Excel's most powerful functions the way they are designed to be used.

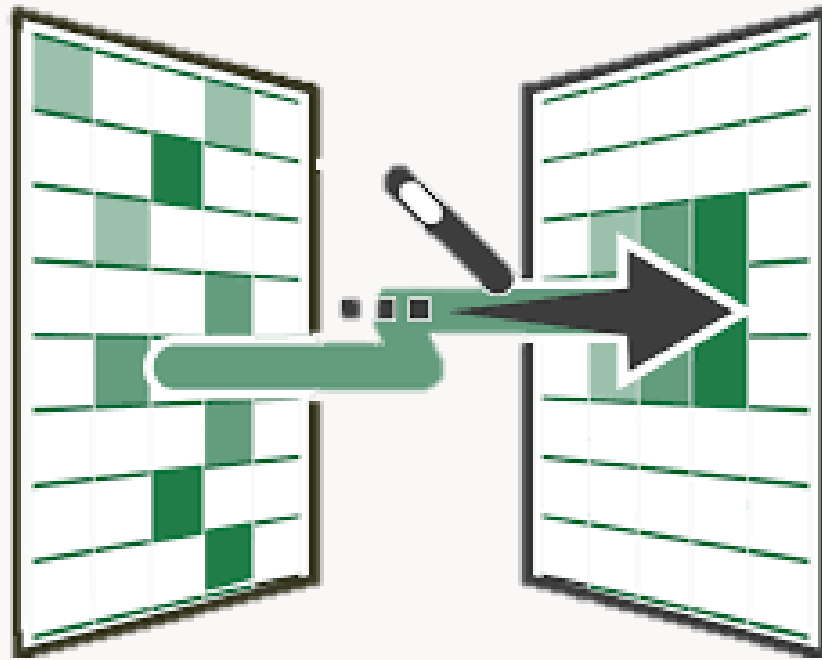
GROUPBY/ PIVOTBY | Pivot Tables
Simple functions like SUMIFS | COUNTIFS

Custom Workflows

Build repeatable Power Query functions

Build repeatable Power Query functions

Creating Custom Functions from your Queries

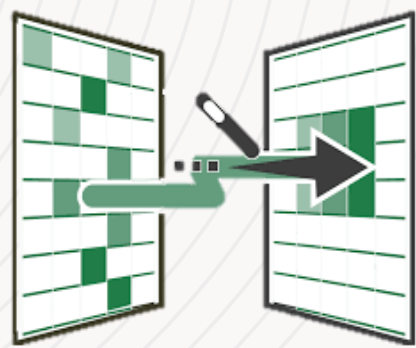


Demo

Closing Remarks



Bluebeam Revu
PDF Markup Tool
Document Management Tool
Data Generator



Power Query in Excel
Data Cleaning Tool
Included with O365





Supercharging Revu Data with Power Query in Excel

Doug McLean, RSE, BCP
Bluebeam Digital Champion
Sr. Estimator, Towne Millwork Ltd.

